

## Co-Location

(Housing next to Jobs)

Overview for Science & Technology Committee

February 7, 2006

## Today's Presentation...

- Factors influencing co-location
- Regional perspective
- Importance of basic employment
- Proposed framework for solutions



## Factors Influencing Co-Location

- "Smart Growth Strategies"
- Shortage of housing units-not land, not yet
- Soaring home prices
- Market price-industrial vs. residential land

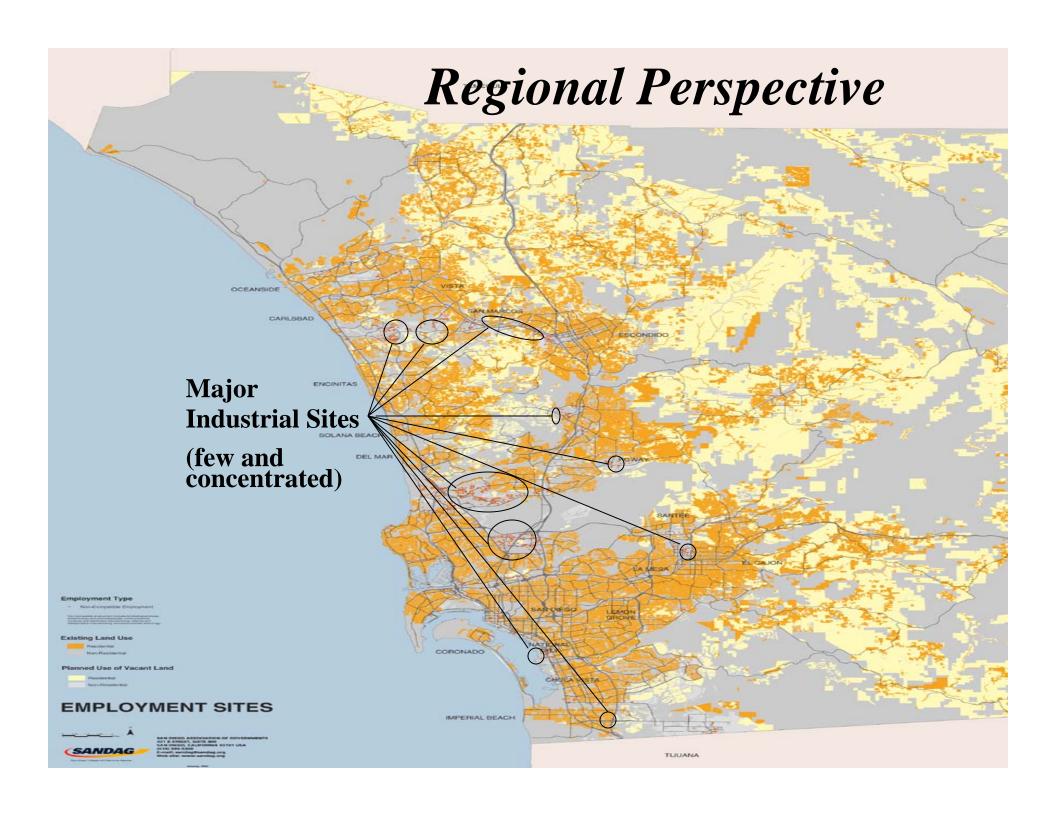


# Regional Perspective What problems are created by co-location? Compatibility Risk Factors

- Air Emissions
- Hazardous Material
- Glare/Lighting
- Hours of Operation
- Noise Level
- Truck Traffic

# Regional Perspective How big is the problem? Employment Summary (2004)

	Total Firms	Compatible Employment Firms	Non-Compatible Employment Firms	% Non- Compatible Firms	% of All Firms
City of San Diego	28,286	27,339	947	3.3%	1.7%
Outside City of San Diego	28,550	27,979	571	2.0%	1.0%
Region Total	56,836	55,318	1,518	2.7%	2.7%



### **University City**

#### **Employment Type**



Non Compatible Employment

Non Compatible employment includes blomedical products, botechnology and pharmaceuticals, communications, computer and electronics manufacturing, defense and transportation manufacturing, and environmental technology.

#### **Existing Land Use**



Residential

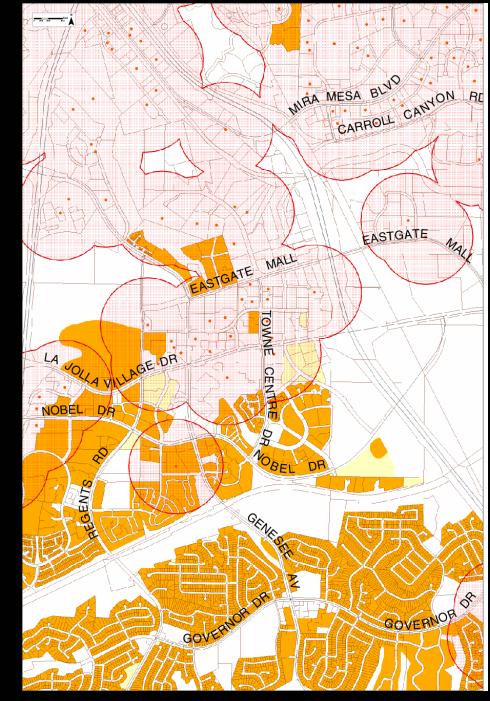
#### Planned Use of Vacant Land



Residential



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## **Kearny Mesa**

#### **Employment Type**



Non Compatible Employment

Non Compatible employment includes biomedical products, biotechnology and pharmaceuticals, communications, computer and electronics manufacturing, defense and transportation manufacturing, and environmental technology.

#### **Existing Land Use**



Residential

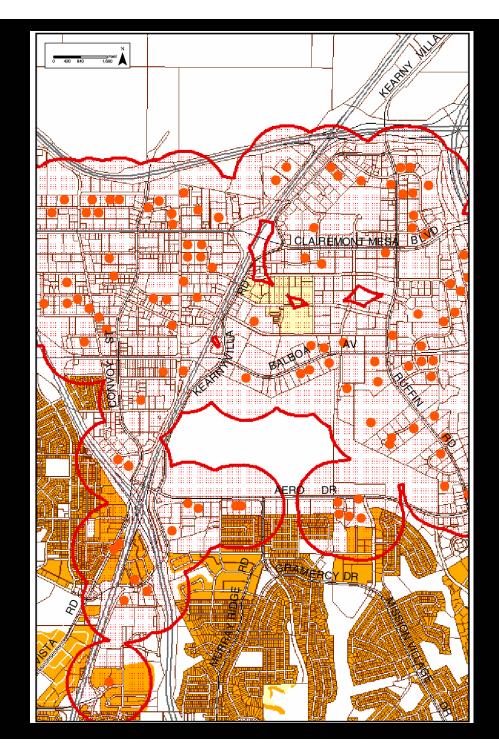
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#### Mira Mesa

#### **Employment Type**

Non Compatible Employment

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#### **Existing Land Use**



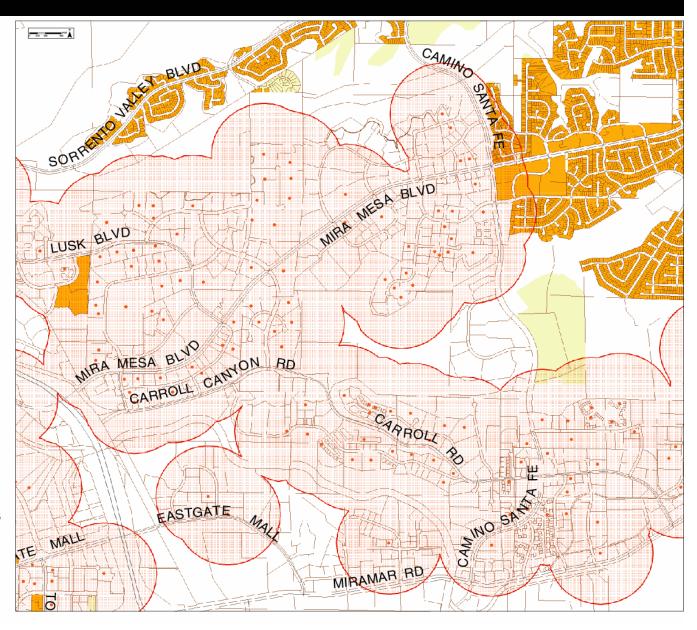
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#### **Carlsbad**

#### **Employment Type**

- Compatible Employment
- Non Compatible Employment

Non Compatible employment includes biomedical products, biotechnology and pharmaceuticals, communications, computer and electronics manufacturing, defense and transportation manufacturing, and environmental technology.

#### **Existing Land Use**



Residential

#### **Planned Use of Vacant Land**

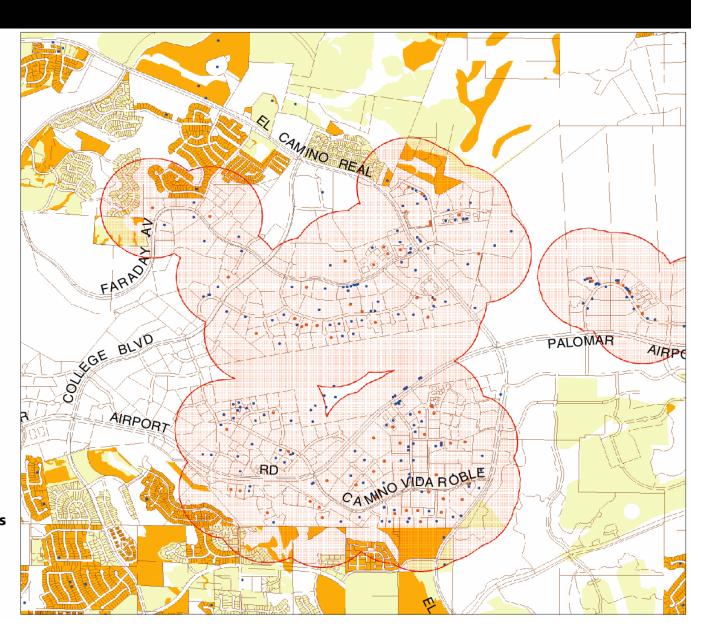


Residential



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#### Midway/Morena

#### **Employment Type**

Compatible Employment

Non Compatible Employment

Non Compatible employment includes biomedical products, biotechnology and pharmaceuticals, communications, computer and electronics manufacturing, defense and transportation manufacturing, and environmental technology.

#### **Existing Land Use**



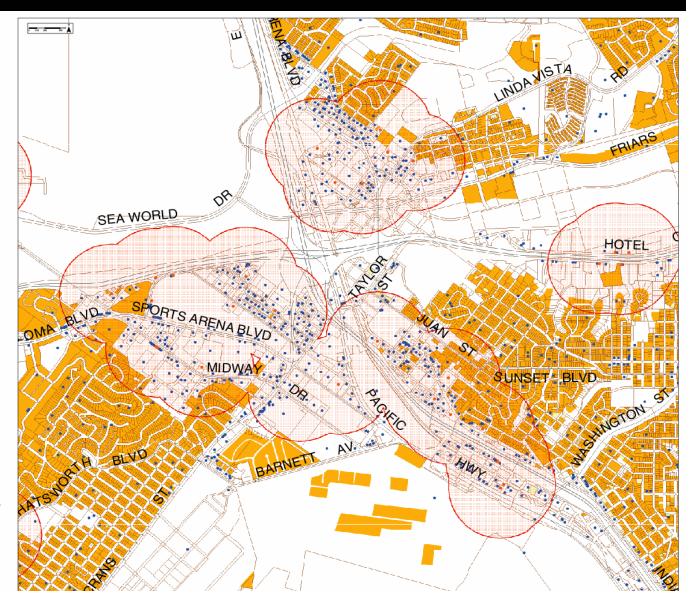
#### Planned Use of Vacant Land





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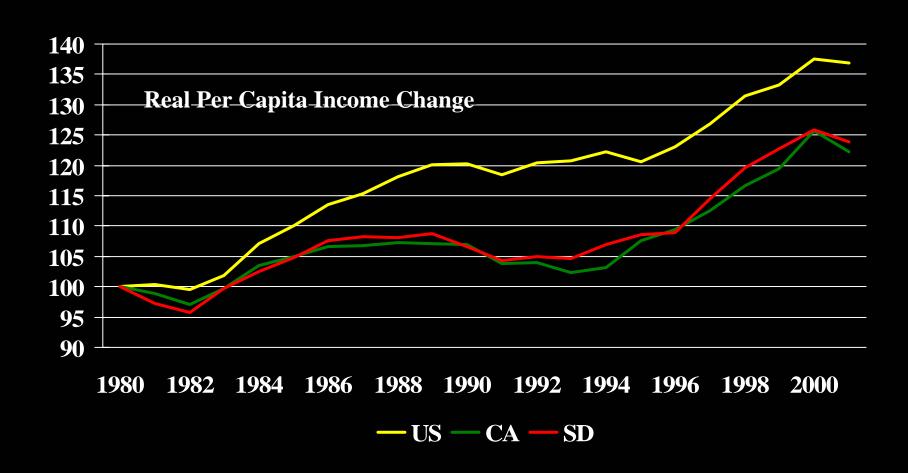
## Importance of Basic Jobs

Key to a rising standard of living

## Importance of Basic Employment

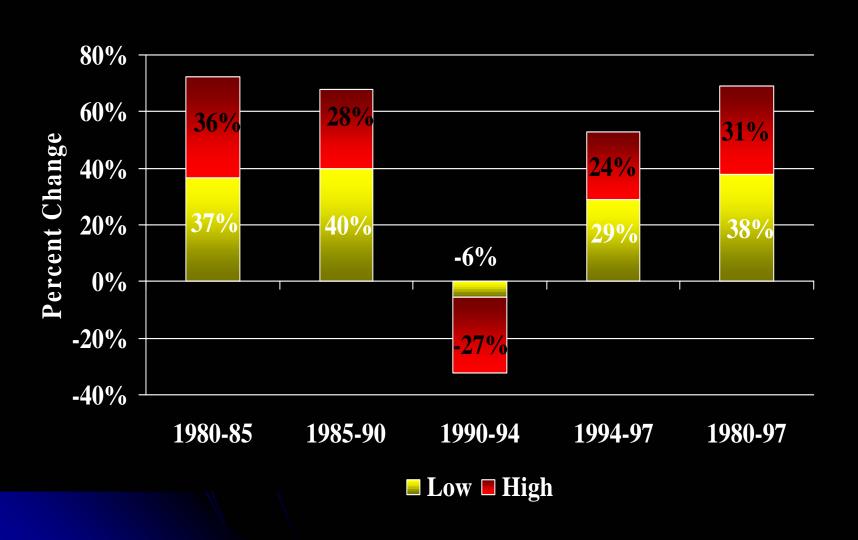
- Drive Regional Prosperity
  - New Money
  - Unconstrained Markets
  - Set Wage Levels
- Source of Competitiveness
  - Foster Innovation
  - Source of Productivity
- Primary Source of New Businesses

## Slow Basic Employment Growth has Slowed Rise in Local Standard of Living



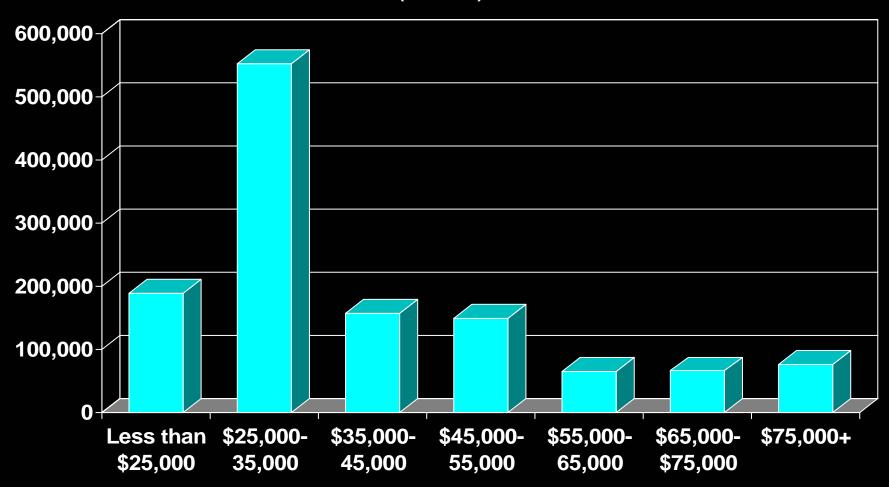
### Unbalanced Job Growth

#### High and Low Paying Job Creation



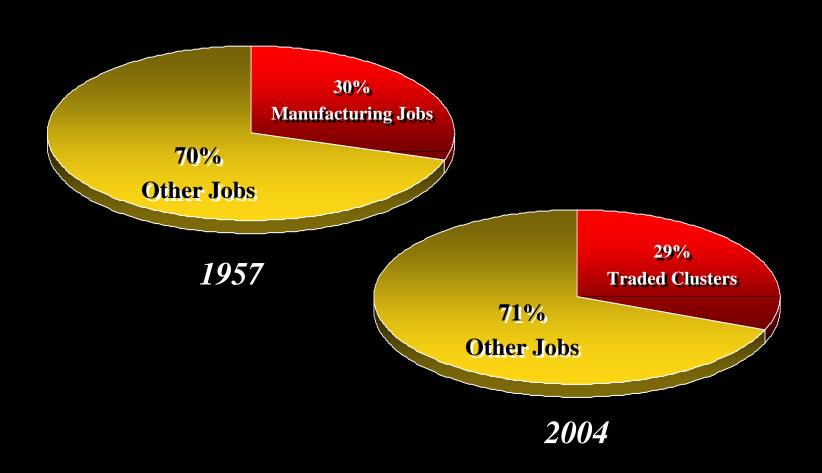
## Unbalanced Job Opportunities

Low Wage Occupations Have Highest Employment (2003)



Source: California Employment Development Department

## Our Economic Drivers are Changing

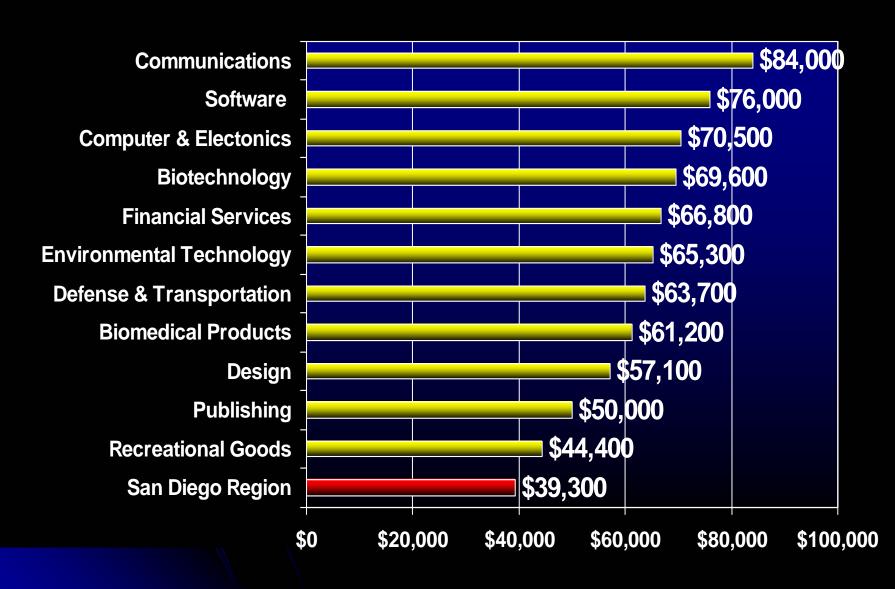


## 16 Traded Clusters Drive Our Economy

- Biomedical Products
- Biotechnology
- Communications
- Computer Electronics
- Defense & Transportation
- Design Services
- Entertainment
- Environmental Technology

- Financial Services
- Fruits & Vegetables
- Horticulture
- Publishing Services
- Recreational Goods
- Software
- Specialty Foods
- Travel and Hospitality

## Importance of Selected Traded Clusters High Value-Added, High Paying Jobs (2003)



## Importance of Selected Traded Clusters Impact per \$1M Increase in Demand

	High value	Low value	
	Added Jobs	Added Jobs	% Difference
Increase	\$1M	\$1M	-
Employment	18	46	156%
Wages per Employee	\$63,700	\$24,200	-62%
Taxes per Employee	\$19,500	\$7,300	-62%

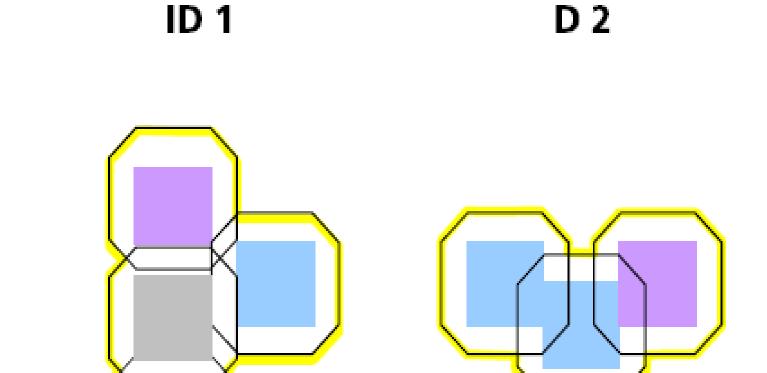
## Proposed Framework for Solutions

Focus on Otay Mesa

## Proposed Framework for Solutions (new public policy guidelines)

- Public policy guidelines to prevent and encourage co-location in appropriate areas
  - Industrial Districts
  - Buffer zones
- Identify prime industrial districts (ID)
- Develop co-location compatibility criteria
- Apply criteria to ID's compatibility score
- Incorporate guidelines into EP element of GP

### Illustration of an approach to create Industrial Districts



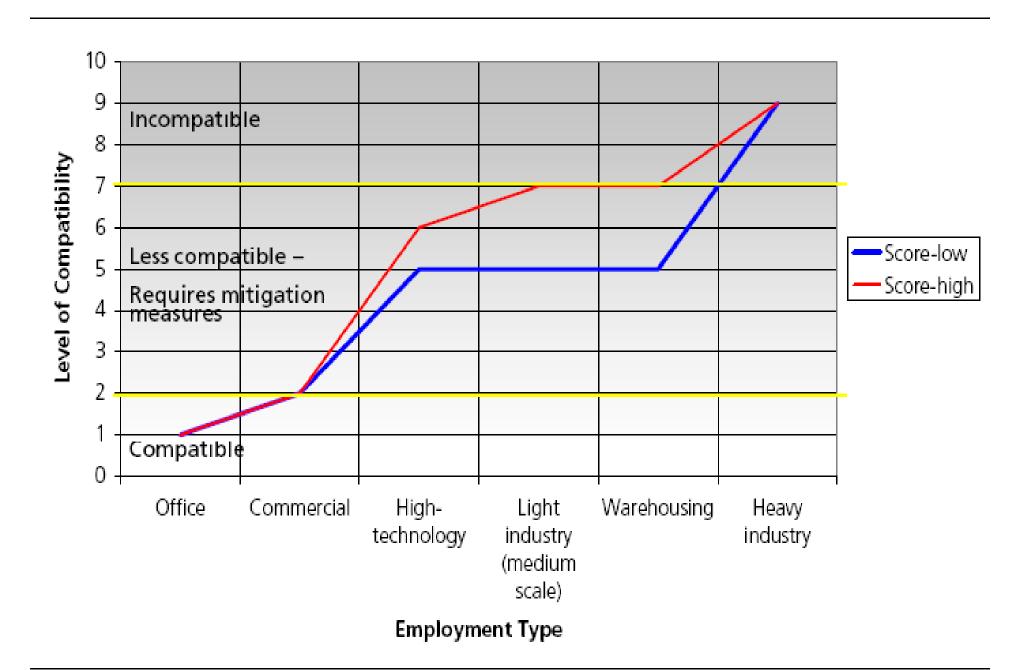
Source: SourcePoint, March 2005.

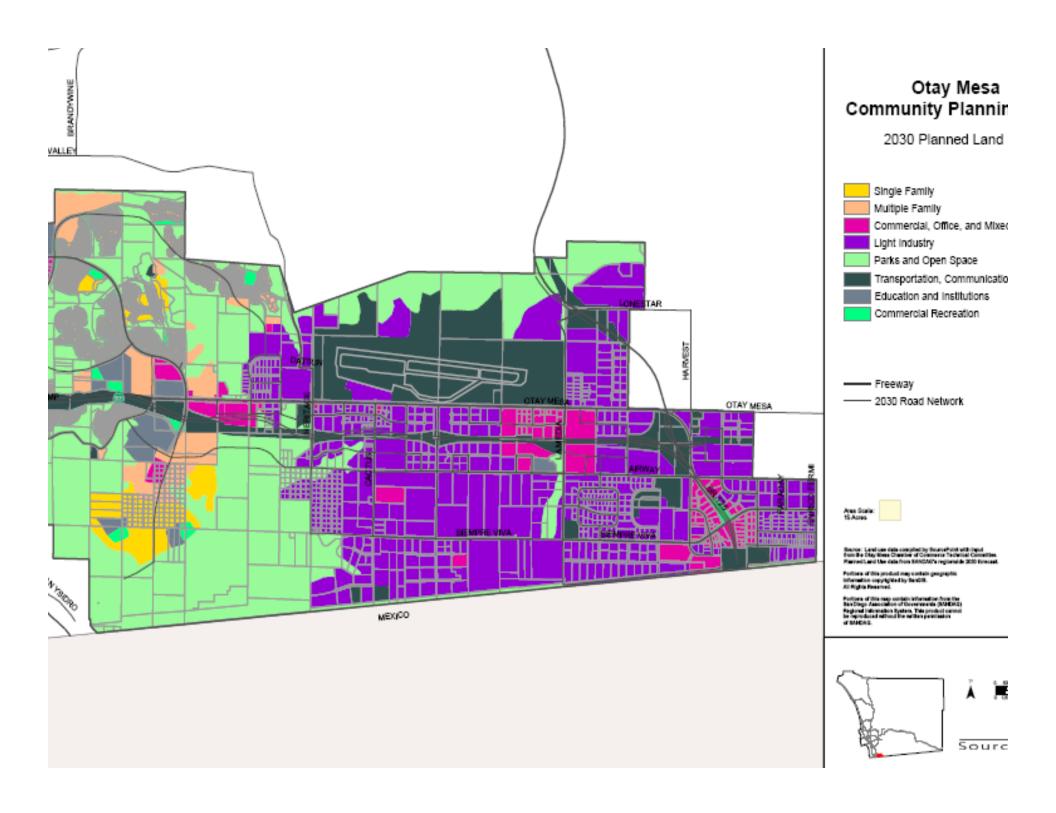
#### Illustration of Theoretical Approach for Determining Incompatibilities by Employment Types

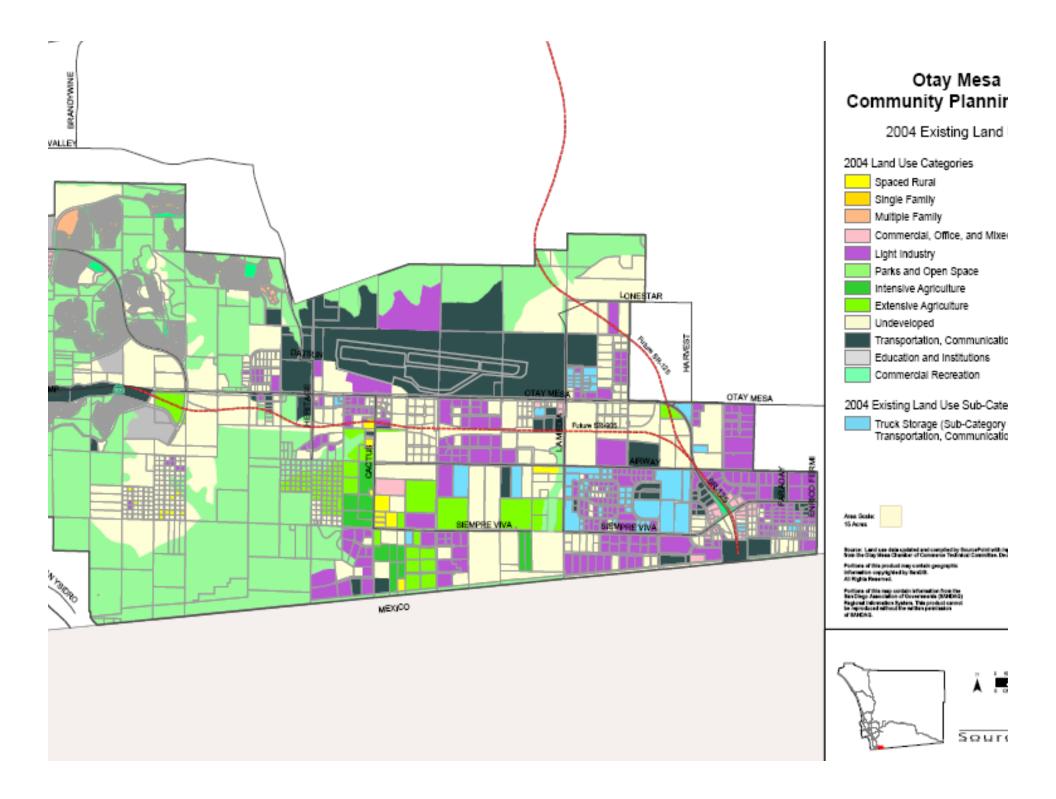
Employment Types	Emissions/ Output	Truck Traffic	Hours of operation¹	SCORE (low and high)
Office	No (0)	No (0)	Daytime (1)	1
Commercial	No (0)	No (0)	Daytime (2)	2
High-technology	No (1)	Yes (1-2)	Daytime (3)	5-6
<b>Light industry</b> (medium scale)	Yes (1-2)	Yes (1-2)	All day (3)	5-7
Warehousing	Yes (0-1)	Yes (2-3)	All day (3)	5-7
Heavy industry	Yes (3)	Yes (3)	All day (3)	9

Source: SourcePoint, March 2005.

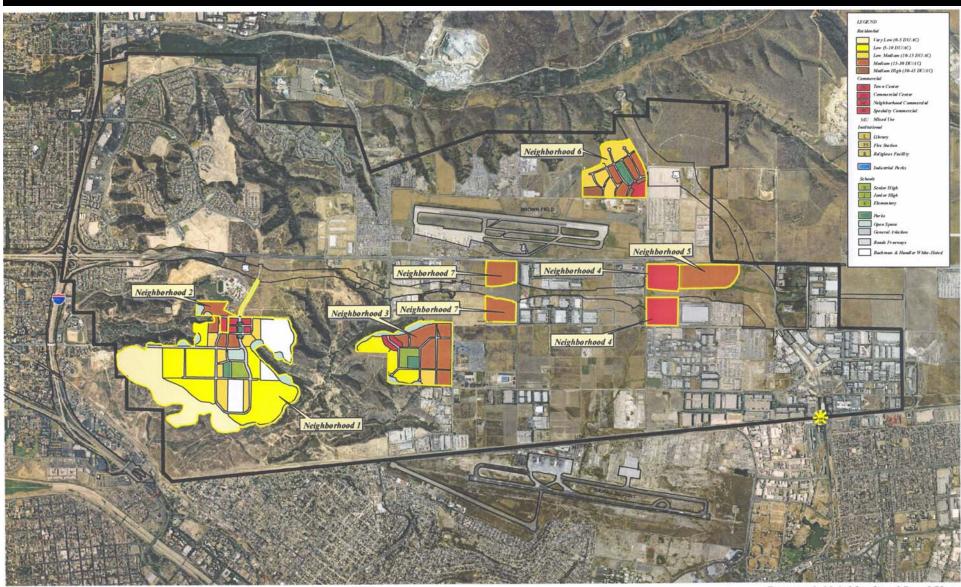
#### Level of Compatibility between Employment Types and Residential Use







## Proposed Residential Alternatives



Otay Mesa Community Plan Land Use Update

Proposed Neighborhood Land Uses





#### Otay Mesa Community Plannin

2030 Forecast Truck Ne with Unmitigated Impact Illustrated with Traffic B

#### Commercial Truck Volum (Average Weekday Traffic

Less than 1,000"

1,000 to 2,000

2,000 to 3,500

3,500 to 7,000

More than 7,000

— Major Roads

---- Future Freeways

— Freeway

Proposed Buffer on Forecast Truck Netwo

"Includes 500 foot buffer on all roads in comm truck network. Also includes a 1000 foot buffer of forecast to carry more than 20,900 commercial t

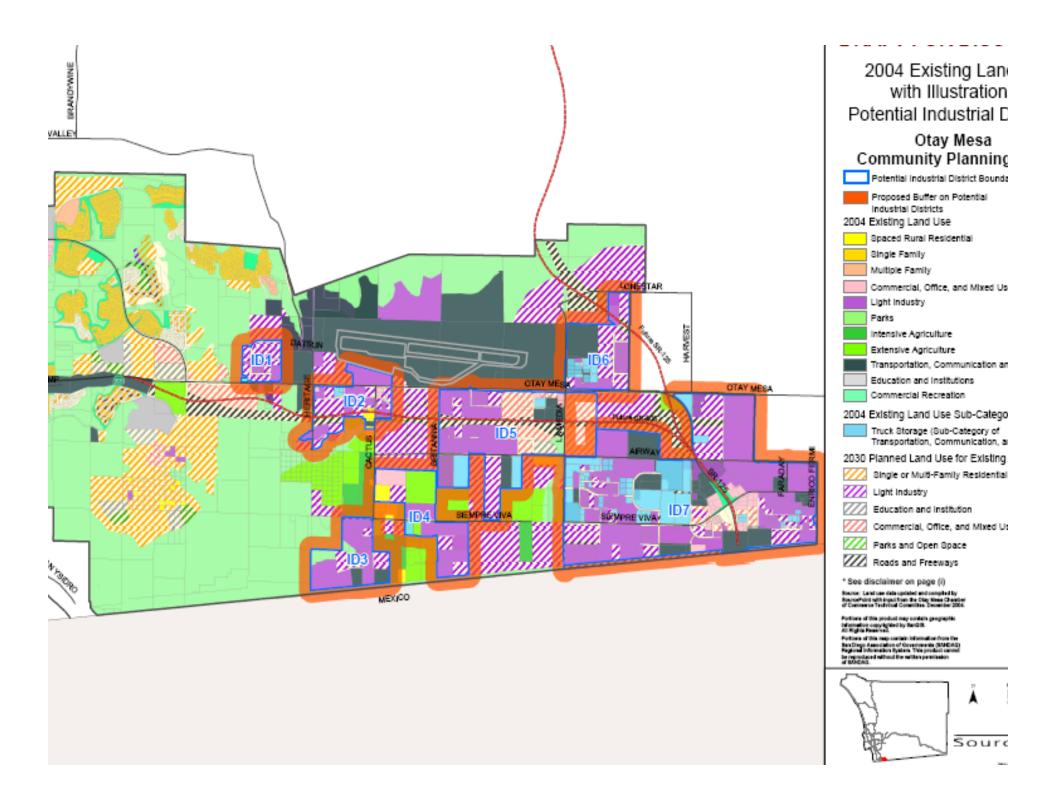
\* Find line may represent only one (1) truck.

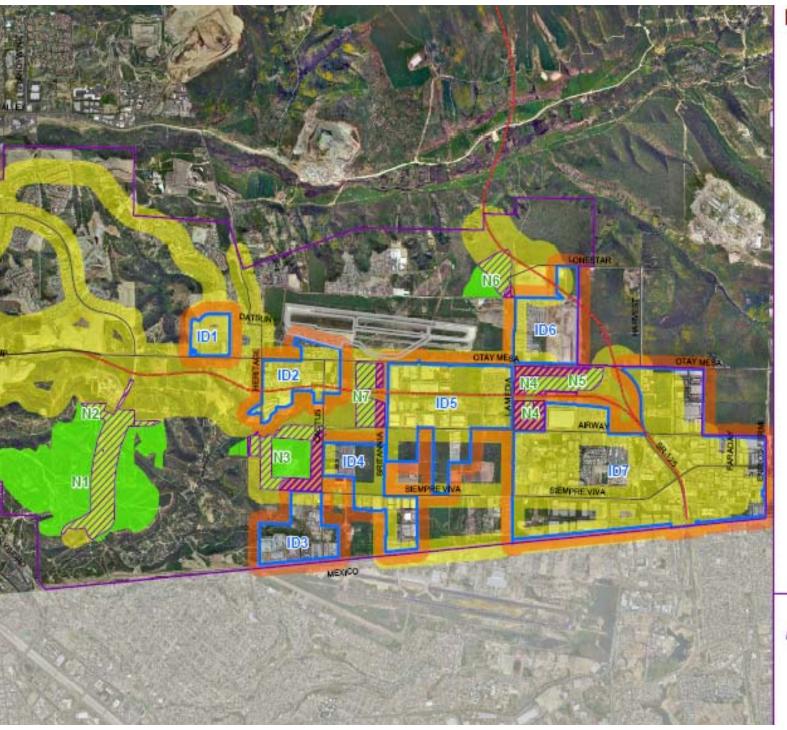
Source: Data complicatly SourcePoint with input from City Seas Chamber of Commerce Technical Committee. Transportation models incorporate bands as danger or produced by the commerce of the c

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#### DRAFT FOR DISCU

Illustration of Potential Industrial C

#### Otay Mesa Community Plannin

Otay Mesa Boundar

Proposed Industrial I Boundaries\*

Proposed 500 Foot I Potential Industrial D

Proposed Neighborh

Buffer on Forecast 2030 Truck Network

Areas of Proposed R Developments Confi Forecast Truck Netw

Areas of Proposed F Developments Confl Proposed Industrial I

\* See disclaimer on page (I)

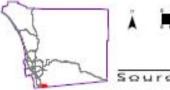
"Includes 500 foot buffer on all roads in commitmuck network. Also includes a 1990 foot buffer of forecast to carry more than 20,000 commercial to

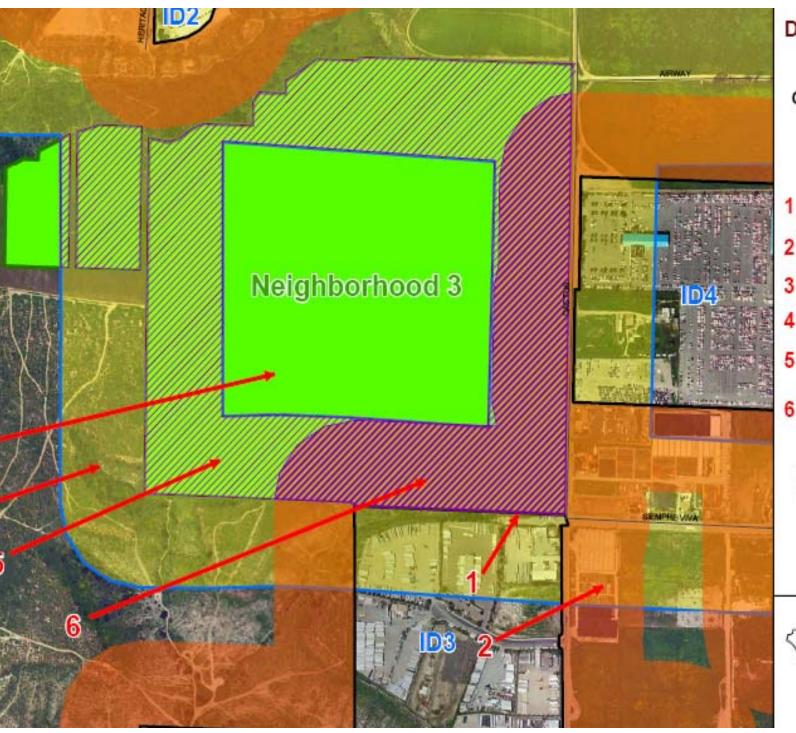
Dig, Mean Chamber of Commerce Technical Committee. Transportation resides incorporate land use changes of proposed highways and absets to forecast brills returned

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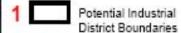


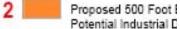


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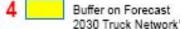
#### Otay Mesa Community Plannin

Example: Focus ( Proposed Neighborho













<sup>\*</sup> See disclaimer on page (i)

Some Data completely SourceFull with input from City Mass Chamber of Community Technical Committee

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<sup>&</sup>quot; includes 500 foot buffer on all roads in committude network. Also includes a 1000 foot buffer of forecast to carry more than 20,000 commercial to

## Summary Points

- Generally, industrial and residential land uses are not compatible and require the most mitigation
- 90% of jobs are not industrial and require the least mitigation
- Select basic jobs located mostly on industrial land are key to rising standard of living
- Unchecked-market forces will erode our industrial base
- New public policy guidelines are required to address industrial / residential co-location



## Co-Location

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